



Success with Louisiana Energy Code

Checklist for Builders/Trades & Code Officials

HVAC INSTALLATION





HVAC INSTALLATION

CHECKLIST: JOB READY

RECOMMENDED PRACTICES + CODE REFERENCE

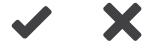
✓ ✗ N/A

<p>1. Framing allows full level of insulation to be installed under attic platforms. Code Reference: 2009 IRC Table N1102.1: Insulation and fenestration requirements</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>2. For walls separating conditioned and unconditioned spaces, framing allows for the required R-value, has a top plate, bottom plate and an exterior air barrier. Code Reference: 2009 IRC Table N1102.4.2: Air barrier and insulation inspection</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>3. All walls separating conditioned and unconditioned spaces will allow for required R-value. Code Reference: 2009 IRC Table N1102.1: Insulation and fenestration requirements</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>4. All dropped ceilings/soffits, shafts and chases are capped with an air barrier and an approved air sealing material. Code Reference: 2009 IRC Table N1102.4.2: Air barrier and insulation inspection</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>5. All floor systems within the conditioned envelope have a band or blocking separating conditioned and unconditioned spaces. Code Reference: 2009 IRC Table N1102.4.2: Air barrier and insulation inspection</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>6. Selected bath fans will exhaust at least 50 CFM intermittently or 20 CFM continuously when installed and meet efficacy requirements. Code Reference: 2009 IRC Table N1102.4.2: Air barrier and insulation inspection</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>7. Manual J and Manual S or another approved method are geometrically consistent with plans and are accurate for the dwelling unit. Code Reference: 2009 IRC M1401.3: Equipment sizing</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>8. Right-sized equipment is selected based on ACCA Manual S or another approved equipment selection method. Code Reference: 2009 IRC M1401.3: Equipment sizing</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>9. Whole-house mechanical ventilation strategy and rate are selected based on 2009 IRC M1507.3. Required ventilation rates shall also include adequate provisions for makeup air system supplies and/or exhausts as required in either the IRC or IMC. Code Reference: 2009 IRC R303.4: Mechanical ventilation, 2009 IRC M1507.3: Whole-house mechanical ventilation system</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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BUILDER VERIFICATION



Stop work until details are corrected.

Proceed without corrections.

The sub-contractor who signs and completes this form is doing so to the best of his/her knowledge and should not be held legally responsible for work completed by other organizations. The intent of this form is to ensure job sites are ready before beginning work.

Signature:

Date:

ADDITIONAL ITEMS

2009 IRC N1103.2.3

Building framing cavities shall not be used as ducts or plenums.
Exception: Returns run exclusively through conditioned space

2009 IRC N1103.5

Ventilation dampers. Does the whole-house mechanical ventilation include an automatic or gravity damper?



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RECOMMENDED PRACTICES + CODE REFERENCE	✓	✗	N/A
1. HVAC system installed matches ACCA Manual J and Manual S or approved methods from the building plans. Code Reference: 2009 IRC M1401.3: Equipment sizing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Building cavities are not used as part of a duct system. Code Reference: 2009 IRC N1103.2.3: Building cavities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Seal all duct terminations to drywall and/or subfloor and all HVAC penetrations in the building envelope with foam, caulk or mastic. Use fire-rated sealants where applicable. Code Reference: 2009 IRC M1601.4.1: Duct sealing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Seal all HVAC components at all joints, seams and corners. Code Reference: 2009 IRC M1601.4.1: Duct sealing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Duct leakage testing, if needed, meets Louisiana Energy Code compliance levels. Code Reference: 2009 IRC M1601.4.1: Duct sealing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Mechanically fasten all metal ductwork with screws. Attach the inner liner of flexible ducts with nylon/plastic straps and tighten with a manufacturer-approved tool. Code Reference: 2009 IRC M1601.4.1: Duct sealing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Insulate all supply duct work in unconditioned attics to R-8. Insulate all other duct work outside of conditioned space to R-6. Code Reference: 2009 IRC N1103.2.2: Duct sealing, 2009 IRC M1601.4.5: Duct insulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Do not compress insulated flexible ducts more than the thickness of the insulation. Code Reference: 2009 IRC M1601.3: Duct insulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Support flexible duct (including ventilation) at least every 4 feet and do not bend greater than 90°. Code Reference: 2009 IRC M1601.4.3: Duct supports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Install a whole-house ventilation strategy. Required ventilation rates shall also include adequate provisions for makeup air system supplies and/or exhausts as required in either the IRC or IMC. Code Reference: 2009 IRC R303.4: Mechanical ventilation, 2009 IRC M1507.3: Whole-house mechanical ventilation system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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RECOMMENDED PRACTICES + CODE REFERENCE	✓	✗	N/A
11. Install outside air ventilation intakes at least 10 feet from any exhaust vent or stack. Code Reference: 2009 IRC 303.4.1: Outside air intake locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Coordinate bath fan exhaust duct direction with the electrical contractor. Code Reference: None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Terminate all exhaust ventilation ducts to the outside. Install screens where applicable. Code Reference: 2009 IRC 303.5: Outside air intake screens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. For heat pumps, install a heat strip outdoor temperature lockout that prevents supplemental heat operation and set it to the balance point. Verify system will defrost. Code Reference: 2009 IRC N1103.1.2: Heat pump supplementary heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. For furnaces, install a programmable thermostat. Code Reference: 2009 IRC N1103.1.1: Programmable thermostat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Install R-3 insulation around all HVAC system piping that carries fluids above 105°F or below 55°F. Code Reference: 2009 IRC N1103.4: Mechanical pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CERTIFICATION

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Name:

Company:

Signature: